

# Morbidity and Mortality

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

## EPIDEMIOLIC NOTES AND REPORTS

## DIPHTHERIA - Austin, Travis County, Texas

From January 1962 through September 1967, only eight cases of diphtheria were reported from Austin, Travis County, Texas. Beginning in October 1967, however, a trend towards increased numbers of cases per month was noted and the number of reported cases reached outbreak proportions in October 1968 when 17 cases were reported (Table 1). Although most of the 62 cases reported between October 1967 and October 1968 were clinically mild, two deaths did occur in February 1968. No late complications secondary to the diphtheria exotoxin have been reported in the last 6 months.

Epidemiologic investigation of the first 60 cases reported since October 1967 showed that 26 were Negro and

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34 were white; of the latter, 30 were of Mexican-American extraction. Approximately 75 percent of the patients were under 15 years of age and all patients were either unimmunized or inadequately immunized. Most of the cases resided in the lower socioeconomic area of southeast Austin.

Laboratory investigation found that all strains isolated from cases and carriers were toxicemic. Approximately 25 (Continued on page 404)

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	43rd WEEK ENDED		MEDIAN 1963 - 1967	CUMULATIVE, FIRST 43 WEEKS		
	October 26, 1968	October 28, 1967		1968	1967	MEDIAN 1963 - 1967
Aseptic meningitis	137	90	53	3,696	2,500	1,770
Brucellosis	4	4	4	189	210	210
Diphtheria	2	5	7	183	121	165
Encephalitis, primary:						
Arthropod-borne & unspecified	69	47	---	1,187	1,367	---
Encephalitis, post-infectious	8	10	---	413	680	---
Hepatitis, serum	115	47	751	3,749	1,810	31,753
Hepatitis, infectious	935	740	751	37,286	31,781	31,753
Malaria	49	55	2	1,923	1,689	89
Measles (rubeola)	155	300	1,056	20,389	59,379	245,038
Meningococcal infections, total	26	26	41	2,190	1,838	2,297
Civilian	25	25	---	2,005	1,720	---
Military	1	1	---	185	118	---
Mumps	1,249	---	---	130,808	---	---
Poliomyelitis, total	4	1	4	54	29	82
Paralytic	4	1	1	54	25	77
Rubella (German measles)	270	285	---	45,444	41,272	---
Streptococcal sore throat & scarlet fever	7,654	7,654	6,041	345,536	368,415	326,640
Tetanus	1	3	4	145	186	222
Tularemia	—	3	7	157	150	217
Typhoid fever	11	7	6	325	350	356
Typhus, tick-borne (Rky. Mt. spotted fever)	—	—	2	265	292	229
Rabies in animals	43	44	61	2,869	3,605	3,605

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax	3	Rabies in man	1
Botulism*	6	Rubella, Congenital Syndrome	5
Leptospirosis: W.Va.-1	39	Trichinosis: Calif.-1	52
Plague	2	Typhus, murine: Tex.-1	28
Psittacosis: Calif.-2	41		

\*Delayed Reports: Botulism: Mich. 1

**CURRENT TRENDS**  
**MEASLES — United States**

During the 4-week period, September 8 through October 5 (weeks 37-40), 1968, measles was reported from 149 counties or health districts; 231 counties or health districts reported measles in that 4-week period in 1967. Of these 149 counties, six (4.0 percent) reported a total of 10 or more cases (Figure 1) compared with 15 of 231 (6.5 percent) in the corresponding 4-week period in 1967 (Figure 2).

The nation as a whole showed a 37 percent reduction in the number of areas reporting measles in this 4-week period in 1968 from those reporting measles in that 4-week period in 1967. Only four divisions (West North Central, South Atlantic, East South Central, and Mountain) had as great a decrease (Table 3). The Middle Atlantic, East North Central, and West South Central, each showed a slight decrease; however, the New England divisions recorded no change, and the Pacific division showed a slight increase in the number of counties reporting measles in this 4-week period in 1968 from that same 4-week period in 1967.

*(Reported by State Services Section, and Statistics Section, Epidemiology Program, NCDC.)*

Figure 1

**COUNTIES OR HEALTH DISTRICTS REPORTING A TOTAL OF 10 OR MORE CASES OF MEASLES  
SEPTEMBER 8 THROUGH OCTOBER 5, 1968**



Table 3

**Number of Counties or Health Districts Reporting Measles During Weeks 37-40, 1967 and 1968 by Geographic Divisions**

Geographic Divisions	Number of Counties or Health Districts Reporting			
	1 or More Cases		Total of 10 or More Cases	
	1968	1967	1968	1967
United States	149	231	6	15
New England	8	8	—	—
Middle Atlantic	16	19	2	—
East North Central	33	36	2	3
West North Central	5	17	—	1
South Atlantic	8	33	—	—
East South Central	2	22	—	—
West South Central	27	32	1	7
Mountain	14	29	—	—
Pacific	36	35	1	4
Puerto Rico	4	5	1	1
Virgin Islands	—	—	—	—

Figure 2

**COUNTIES OR HEALTH DISTRICTS REPORTING A TOTAL OF 10 OR MORE CASES OF MEASLES  
SEPTEMBER 10 THROUGH OCTOBER 7, 1967**



**SURVEILLANCE SUMMARY  
TUBERCULOSIS — United States and Puerto Rico — 1967**

During 1967 state health departments in the United States reported 45,647 new active tuberculosis cases, a decline of 2,120 cases (4.4 percent) from the 47,767 cases reported in 1966 (Table 4). The reduction in new active cases occurred in over two-thirds of the states. New active cases were reported from over 2,400 counties and miscellaneous administrative areas. No new cases were recorded during the year in 628 counties.

A corresponding reduction was shown in tuberculosis new case rates for the nation as a whole, 23.1 cases per

100,000 population in 1967 compared with 24.4 in 1966. In 35 states, case rates were lower in 1967 than in 1966; in 14 states, the rates were higher; and in one state, there was no change. The case rates for states ranged from a high of 45.7 cases per 100,000 population in Hawaii to a low of 5.5 in Iowa. The District of Columbia had a rate of 52.4 and Puerto Rico, a rate of 44.2 per 100,000.

*(Reported by Tuberculosis Program, NCDC.)*

Table 4  
New Active Tuberculosis Cases and Case Rates: United States and Puerto Rico, 1966 and 1967

State	New active cases		Case rate per 100,000 population		Rank according to rate		Population July 1, 1967
	1966	1967	1966	1967	1966	1967	
United States Total	47,767	45,647	24.4	23.1	..	..	197,863,000
Continental United States	47,361	45,189	24.3	23.0	..	..	196,830,000
Alabama	1,214	1,379	34.6	38.9	7	3	3,541,000
Alaska	147	110	55.5	40.4	1	2	272,000
Arizona	503	436	31.4	26.5	10	15	1,644,000
Arkansas	587	497	30.0	24.9	12	19	1,995,000
California	4,658	4,171	24.8	22.1	24	25	18,899,000
Colorado	223	256	11.4	12.7	40	38	2,018,000
Connecticut	293(a)	411	10.2	14.1	42	37	2,916,000
Delaware	173	122	33.7	23.3	8	23	524,000
District of Columbia	553	423	68.6	52.4	..	..	808,000
Florida	1,573	1,601	26.7	26.5	20	16	6,046,000
Georgia	1,273	1,223	28.6	27.1	14	13	4,509,000
Hawaii	259	348	35.8	45.7	4	1	761,000
Idaho	65	55	9.3	7.8	43	46	703,000
Illinois	2,938	2,999	27.2	27.6	18	12	10,874,000
Indiana	1,051	1,069	21.2	21.3	30	26	5,021,000
Iowa	184	150	6.7	5.5	49	50	2,751,000
Kansas	279	223	12.3	9.8	38	43	2,281,000
Kentucky	1,241	1,071	39.0	33.4	3	6	3,208,000
Louisiana	1,029	966	28.4	26.3	15	17	3,670,000
Maine	128	120	13.1	12.2	37	39	986,000
Maryland	1,217	1,187	33.7	32.2	9	7	3,681,000
Massachusetts	910	910	16.8	16.8	33	31	5,416,000
Michigan	2,263	1,930	26.7	22.4	19	24	5,615,000
Minnesota	400	394	11.2	10.9	41	41	3,626,000
Mississippi	654	616	28.0	26.3	17	18	2,343,000
Missouri	1,049	882	23.0	19.2	27	28	4,589,000
Montana	105	109	15.0	15.6	36	35	698,000
Nebraska	132	121	9.2	8.4	44	45	1,442,000
Nevada	231	147	53.6	33.4	2	5	440,000
New Hampshire	54	44	8.0	6.4	47	48	690,000
New Jersey	1,592	1,455	23.1	20.9	26	27	6,971,000
New Mexico	267	248	26.6	24.5	22	21	1,011,000
New York	5,296	5,069	29.1	28.2	13	11	18,007,000
North Carolina	1,266	1,247	25.5	24.6	23	20	5,072,000
North Dakota	42	49	6.5	7.8	50	47	631,000
Ohio	1,639	1,548	15.8	14.7	34	36	10,497,000
Oklahoma	538	442	21.7	17.6	29	30	2,514,000
Oregon	386	322	19.6	16.3	31	33	1,979,000
Pennsylvania	2,664	2,736	23.0	23.4	28	22	11,670,000
Rhode Island	140	148	15.6	16.5	35	32	899,000
South Carolina	690	716	26.7	26.9	21	14	2,664,000
South Dakota	158	119	23.3	17.8	25	29	668,000
Tennessee	1,380	1,199	35.7	30.4	5	8	3,939,000
Texas	3,037	3,209	28.3	29.6	16	10	10,847,000
Utah	75	65	7.4	6.4	48	49	1,022,000
Vermont	35	44	8.5	10.6	46	42	417,000
Virginia	1,573	1,521	35.2	33.5	6	4	4,546,000
Washington	551	507	18.1	15.8	32	34	3,215,000
West Virginia	544	539	30.1	29.8	11	9	1,811,000
Wisconsin	480	463	11.5	11.0	39	40	4,192,000
Wyoming	28	31	8.8	9.7	45	44	320,000
Puerto Rico (b)	1,247	1,191	46.7	44.2	..	..	2,697,000

(a) Excludes 235 diagnosed but not officially reported cases.

(b) Not included in totals.

The District of Columbia is classed as a city, and is not ranked with the states.

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

OCTOBER 26, 1968 AND OCTOBER 28, 1967 (43rd WEEK)

AREA	ASEPTIC MENINGITIS	BRUCELLOSIS	DIPHTHERIA	ENCEPHALITIS			HEPATITIS			MALARIA
				Primary including unsp. cases		Post- Infectious	Serum	Infectious		
	1968	1967	1968	1968	1968	1967	1968	1968	1967	1968
UNITED STATES...	137	90	4	2	69	47	8	115	935	740
NEW ENGLAND.....	5	1	-	-	-	2	-	2	53	32
Maine.*.....	-	-	-	-	-	-	-	-	-	2
New Hampshire.....	-	-	-	-	-	-	-	-	1	-
Vermont.....	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	3	-	-	-	-	1	-	1	32	13
Rhode Island.....	2	1	-	-	-	1	-	-	10	1
Connecticut.....	-	-	-	-	-	-	-	1	10	16
MIDDLE ATLANTIC.....	38	29	3	-	5	4	-	37	176	107
New York City.....	15	3	-	-	-	1	-	22	58	41
New York, up-State.....	3	1	1	-	1	-	-	5	31	14
New Jersey.*.....	10	23	2	-	2	-	-	7	44	27
Pennsylvania.....	10	2	-	-	2	3	-	3	43	25
EAST NORTH CENTRAL.....	25	6	-	-	34	19	2	2	136	124
Ohio.....	15	-	-	-	15	15	1	1	48	30
Indiana.....	-	-	-	-	-	-	1	-	4	18
Illinois.....	4	-	-	-	16	2	-	1	31	18
Michigan.....	6	5	-	-	2	1	-	-	49	53
Wisconsin.....	-	1	-	-	1	1	-	-	4	5
WEST NORTH CENTRAL.....	7	4	-	-	5	3	-	2	53	32
Minnesota.....	7	4	-	-	2	2	-	1	12	10
Iowa*.....	-	-	-	-	1	1	-	-	9	1
Missouri.....	-	-	-	-	-	-	-	-	15	12
North Dakota.....	-	-	-	-	-	-	-	-	3	-
South Dakota.....	-	-	-	-	1	-	-	-	1	-
Nebraska.....	-	-	-	-	-	-	-	-	-	3
Kansas.....	-	-	-	-	1	-	-	1	13	6
SOUTH ATLANTIC.....	5	17	1	-	5	2	-	3	101	89
Delaware.....	-	-	-	-	-	-	-	-	4	3
Maryland.....	-	15	-	-	-	-	-	-	23	22
Dist. of Columbia.....	-	1	-	-	-	-	-	-	-	1
Virginia.....	4	-	1	-	1	-	-	-	12	20
West Virginia.....	1	-	-	-	-	-	-	-	5	13
North Carolina.....	-	-	-	-	-	2	-	2	18	2
South Carolina.....	-	-	-	-	1	-	-	-	6	2
Georgia.....	-	-	-	-	1	-	-	-	16	5
Florida.....	-	1	-	-	2	-	-	1	17	21
EAST SOUTH CENTRAL.....	7	1	-	1	3	-	-	-	58	53
Kentucky.....	-	-	-	-	-	-	-	-	18	23
Tennessee.....	4	1	-	-	3	-	-	-	25	13
Alabama.....	2	-	-	1	-	-	-	-	3	9
Mississippi.....	1	-	-	-	-	-	-	-	12	8
WEST SOUTH CENTRAL.....	5	5	-	1	3	-	-	2	53	80
Arkansas.....	-	1	-	-	1	-	-	-	-	4
Louisiana.....	2	2	-	1	1	-	-	1	12	12
Oklahoma.....	-	-	-	-	-	-	-	-	3	8
Texas.....	3	2	-	-	1	-	-	1	38	56
MOUNTAIN.....	1	1	-	-	2	2	-	-	30	32
Montana.....	-	-	-	-	-	-	-	-	2	2
Idaho.....	-	-	-	-	-	-	-	-	1	-
Wyoming.....	-	-	-	-	-	-	-	-	1	-
Colorado.....	1	1	-	-	2	2	-	-	14	19
New Mexico.....	-	-	-	-	-	-	-	-	4	3
Arizona.....	-	-	-	-	-	-	-	-	4	-
Utah.....	-	-	-	-	-	-	-	-	2	1
Nevada.....	-	-	-	-	-	-	-	-	1	-
PACIFIC.....	44	26	-	-	12	15	6	67	275	191
Washington.....	-	4	-	-	-	-	-	-	30	13
Oregon.....	3	2	-	-	1	1	-	4	26	11
California.....	40	18	-	-	11	14	6	63	213	166
Alaska.....	-	-	-	-	-	-	-	-	3	-
Hawaii.....	1	2	-	-	-	-	-	-	3	4
Port Rico.....	-	-	-	-	-	-	-	-	29	14

\*Delayed reports: Encephalitis, primary: Iowa 3

Hepatitis, serum: Me. 1

Hepatitis, infectious: N.J. 48

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
OCTOBER 26, 1968 AND OCTOBER 28, 1967 (43rd WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS	POLIOMYELITIS			RUBELLA	
	Cumulative		1968	Cumulative		1968		1968	Paralytic			
	1968	1968		1968	1967			1968	1968	Cum. 1968	1968	
UNITED STATES...	155	20,389	59,379	26	2,190	1,838	1,249	4	4	54	270	
NEW ENGLAND.....	9	1,181	883	4	129	73	118	-	-	1	22	
Maine*.....	-	38	248	-	6	3	4	-	-	-	1	
New Hampshire.....	-	141	77	-	7	2	-	-	-	-	-	
Vermont.....	-	2	34	-	1	1	30	-	-	-	-	
Massachusetts.....	5	370	371	2	66	34	39	-	-	1	10	
Rhode Island.....	-	6	62	-	9	4	7	-	-	-	2	
Connecticut.....	4	624	91	2	40	29	38	-	-	-	9	
MIDDLE ATLANTIC.....	53	4,215	2,344	5	395	301	43	-	-	1	24	
New York City.....	30	2,226	478	-	80	53	31	-	-	-	13	
New York, Up-State.....	10	1,249	602	2	71	73	NN	-	-	1	3	
New Jersey.....	10	622	513	2	138	99	12	-	-	-	7	
Pennsylvania.....	3	118	751	1	106	76	NN	-	-	-	1	
EAST NORTH CENTRAL.....	27	3,940	5,732	5	266	252	312	3	3	7	75	
Ohio.....	10	309	1,163	1	73	89	31	1	1	2	4	
Indiana.....	-	693	621	-	36	26	23	-	-	1	7	
Illinois.....	3	1,384	1,028	2	60	57	14	1	1	2	6	
Michigan.....	3	294	970	2	77	62	71	1	1	2	24	
Wisconsin.....	11	1,260	1,950	-	20	18	173	-	-	-	34	
WEST NORTH CENTRAL.....	-	394	2,904	3	118	83	111	-	-	3	10	
Minnesota.....	-	16	134	-	27	21	-	-	-	-	-	
Iowa*.....	-	103	760	-	8	16	100	-	-	1	6	
Missouri.....	-	81	338	2	39	16	-	-	-	2	-	
North Dakota.....	-	137	874	-	3	3	2	-	-	-	3	
South Dakota.....	-	4	55	-	5	6	NN	-	-	-	-	
Nebraska.....	-	43	649	1	9	13	2	-	-	-	-	
Kansas.....	-	10	94	-	27	8	7	-	-	-	1	
SOUTH ATLANTIC.....	8	1,541	7,064	3	435	360	86	-	-	3	33	
Delaware.....	-	16	50	-	8	7	-	-	-	-	2	
Maryland.....	-	103	168	-	36	50	10	-	-	-	2	
Dist. of Columbia.....	-	6	23	1	16	13	1	-	-	1	-	
Virginia.....	-	301	2,216	1	41	42	6	-	-	-	8	
West Virginia.....	3	297	1,427	-	13	34	24	-	-	1	7	
North Carolina.....	-	284	914	-	83	71	NN	-	-	1	-	
South Carolina.....	-	12	511	-	58	30	4	-	-	-	3	
Georgia.....	-	4	36	1	87	55	-	-	-	-	-	
Florida.....	5	518	1,719	-	93	58	41	-	-	-	11	
EAST SOUTH CENTRAL.....	1	501	5,349	1	197	143	42	-	-	2	7	
Kentucky.....	-	103	1,396	-	90	42	117	-	-	1	-	
Tennessee.....	-	62	1,946	1	58	61	22	-	-	-	5	
Alabama.....	-	95	1,336	-	26	26	1	-	-	1	2	
Mississippi.....	1	241	671	-	23	14	2	-	-	-	-	
WEST SOUTH CENTRAL.....	24	4,942	17,738	-	320	234	62	-	-	24	13	
Arkansas.....	-	2	1,404	-	20	33	-	-	-	1	-	
Louisiana.....	-	24	156	-	92	93	1	-	-	-	-	
Oklahoma.....	-	125	3,358	-	50	17	2	-	-	2	2	
Texas.....	24	4,791	12,820	-	158	91	59	-	-	21	11	
MOUNTAIN.....	8	1,023	4,757	1	39	35	85	1	1	1	24	
Montana.....	-	58	318	-	6	3	16	-	-	-	-	
Idaho.....	-	21	393	-	11	3	14	-	-	-	3	
Wyoming.....	1	54	181	1	3	1	-	-	-	-	-	
Colorado.....	2	518	1,594	-	11	13	15	-	-	-	3	
New Mexico.....	5	122	591	-	3	18	-	-	-	-	6	
Arizona*.....	-	224	1,028	-	4	5	12	1	1	1	12	
Utah.....	-	21	383	-	1	4	10	-	-	-	-	
Nevada.....	-	5	269	-	3	3	-	-	-	-	-	
PACIFIC.....	25	2,652	12,608	4	291	357	290	-	-	12	62	
Washington.....	6	557	5,555	-	45	35	55	-	-	1	10	
Oregon.....	2	542	1,667	-	22	27	3	-	-	-	13	
California.....	16	1,508	5,068	3	208	280	204	-	-	11	28	
Alaska.....	1	10	140	-	3	11	27	-	-	-	7	
Hawaii.....	-	35	178	1	13	4	1	-	-	-	4	
Puerto Rico.....	5	441	2,212	-	20	14	18	-	-	-	-	

\*Delayed reports: Measles: Ariz. delete 1  
Meningococcal infections: Iowa 1  
Mumps: Me. 1  
Rubella: Me. 13

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
OCTOBER 26, 1968 AND OCTOBER 28, 1967 (43rd WEEK) - CONTINUED

AREA	STREPTOCOCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
		1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	Cum. 1968
UNITED STATES...	7,654	1	145	-	157	11	325	-	265	43	2,869
NEW ENGLAND.....	876	1	4	-	47	-	11	-	1	-	72
Maine*.....	6	-	-	-	-	-	2	-	-	-	53
New Hampshire.....	27	1	1	-	-	-	1	-	-	-	2
Vermont.....	-	-	-	-	47	-	-	-	-	-	11
Massachusetts.....	124	-	1	-	-	-	5	-	1	-	5
Rhode Island.....	59	-	-	-	-	-	-	-	-	-	-
Connecticut.....	660	-	2	-	-	-	3	-	-	-	1
MIDDLE ATLANTIC.....	254	-	18	-	7	4	31	-	21	3	48
New York City.....	5	-	11	-	-	-	15	-	-	-	-
New York, Up-State.....	189	-	4	-	7	2	7	-	5	1	39
New Jersey.....	NN	-	-	-	-	-	4	-	7	-	-
Pennsylvania.....	60	-	3	-	-	2	5	-	9	2	9
EAST NORTH CENTRAL...	453	-	14	-	11	3	43	-	9	5	263
Ohio.....	82	-	2	-	1	2	19	-	7	2	88
Indiana*.....	80	-	2	-	1	-	3	-	3	1	86
Illinois.....	50	-	6	-	8	-	19	-	2	-	37
Michigan.....	160	-	3	-	1	-	-	-	-	-	14
Wisconsin.....	81	-	1	-	-	1	2	-	-	-	38
WEST NORTH CENTRAL...	274	-	14	-	15	-	34	-	9	14	714
Minnesota.....	28	-	2	-	-	-	1	-	-	8	226
Iowa.....	111	-	4	-	-	-	2	-	1	1	112
Missouri.....	1	-	5	-	7	-	25	-	3	1	102
North Dakota.....	43	-	-	-	-	-	-	-	-	2	111
South Dakota.....	20	-	-	-	3	-	1	-	4	-	97
Nebraska.....	60	-	3	-	-	-	3	-	1	-	25
Kansas.....	11	-	-	-	5	-	2	-	-	2	41
SOUTH ATLANTIC.....	907	-	32	-	11	1	55	-	140	5	338
Delaware.....	8	-	-	-	-	-	-	-	-	-	1
Maryland.....	148	-	3	-	-	-	9	-	18	-	5
Dist. of Columbia..	1	-	2	-	-	-	1	-	-	-	1
Virginia.....	199	-	4	-	3	1	10	-	43	3	120
West Virginia.....	191	-	2	-	-	-	-	-	2	2	45
North Carolina.....	15	-	2	-	2	-	2	-	39	-	12
South Carolina.....	130	-	4	-	-	-	1	-	9	-	-
Georgia.....	7	-	3	-	4	-	14	-	26	-	62
Florida.....	208	-	12	-	2	-	18	-	3	-	92
EAST SOUTH CENTRAL...	1,150	-	15	-	8	-	38	-	51	10	611
Kentucky.....	119	-	1	-	1	-	9	-	10	5	312
Tennessee.....	847	-	6	-	5	-	16	-	35	4	268
Alabama.....	97	-	5	-	-	-	2	-	4	1	24
Mississippi.....	87	-	3	-	2	-	11	-	2	-	7
WEST SOUTH CENTRAL...	544	-	27	-	46	1	46	-	28	3	445
Arkansas.....	28	-	4	-	15	1	15	-	6	1	57
Louisiana.....	12	-	10	-	7	-	6	-	1	-	41
Oklahoma.....	2	-	-	-	8	-	14	-	13	1	118
Texas.....	502	-	13	-	16	-	11	-	8	1	229
MOUNTAIN.....	1,703	-	1	-	8	1	16	-	5	-	80
Montana.....	26	-	-	-	-	-	-	-	-	-	-
Idaho.....	119	-	-	-	-	-	-	-	1	-	-
Wyoming*.....	258	-	-	-	1	-	1	-	-	-	3
Colorado.....	1,040	-	-	-	3	-	2	-	4	-	4
New Mexico.....	137	-	-	-	-	-	8	-	-	-	33
Arizona.....	34	-	1	-	-	1	4	-	-	-	36
Utah.....	89	-	-	-	4	-	-	-	-	-	1
Nevada.....	-	-	-	-	-	-	1	-	-	-	3
PACIFIC.....	1,493	-	20	-	4	1	51	-	1	3	298
Washington.....	673	-	1	-	-	-	2	-	-	-	2
Oregon.....	76	-	1	-	1	-	5	-	-	-	6
California.....	568	-	18	-	3	1	44	-	1	3	290
Alaska.....	73	-	-	-	-	-	-	-	-	-	-
Hawaii.....	103	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	3	1	12	-	-	-	4	-	-	-	18

\*Delayed reports: SST: Me. 6, Wyo. 649  
Tetanus: Ind. delete 1  
Typhoid: Me. 2

Week No.

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED OCTOBER 26, 1968

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(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
NEW ENCLAND:	701	445	31	29	SOUTH ATLANTIC:	1,133	556	36	53
Boston, Mass.	225	119	6	14	Atlanta, Ga.	144	56	3	11
Bridgeport, Conn.	46	36	4	1	Baltimore, Md.	246	120	4	11
Cambridge, Mass.	24	17	-	-	Charlotte, N. C.	37	17	2	2
Fall River, Mass.	27	20	1	-	Jacksonville, Fla.	82	42	-	2
Hartford, Conn.	76	49	2	4	Miami, Fla.	115	64	-	4
Lowell, Mass.	27	19	3	-	Norfolk, Va.	50	26	4	3
Lynn, Mass.	20	12	1	-	Richmond, Va.	95	39	6	5
New Bedford, Mass.	35	29	1	-	Savannah, Ga.	50	21	1	1
New Haven, Conn.	48	25	3	2	St. Petersburg, Fla.	85	67	4	1
Providence, R. I.	51	32	5	2	Tampa, Fla.	75	44	6	2
Somerville, Mass.	10	7	-	-	Washington, D. C.	118	47	5	9
Springfield, Mass.	36	24	1	2	Wilmington, Del.	36	13	1	2
Waterbury, Conn.	32	22	-	2					
Worcester, Mass.	44	34	4	2					
MIDDLE ATLANTIC:	3,293	1,933	112	139	EAST SOUTH CENTRAL:	670	355	32	24
Albany, N. Y.	56	33	1	1	Birmingham, Ala.	76	49	-	1
Allentown, Pa.	28	21	3	1	Chattanooga, Tenn.	61	33	3	7
Buffalo, N. Y.	154	94	3	9	Knoxville, Tenn.	58	35	1	2
Camden, N. J.	46	24	1	5	Louisville, Ky.	154	82	12	2
Elizabeth, N. J.	35	23	-	-	Memphis, Tenn.	124	68	3	4
Erie, Pa.	40	28	2	-	Mobile, Ala.	49	21	1	2
Jersey City, N. J.	75	46	1	5	Montgomery, Ala.	43	18	3	2
Newark, N. J.	92	42	4	4	Nashville, Tenn.	105	49	9	4
New York City, N. Y.	1,669	963	52	74	WEST SOUTH CENTRAL:	1,070	541	37	60
Paterson, N. J.	38	23	2	1	Austin, Tex.	47	29	6	6
Philadelphia, Pa.	478	268	4	19	Baton Rouge, La.	42	23	1	1
Pittsburgh, Pa.	178	102	13	6	Corpus Christi, Tex.	27	13	-	6
Reading, Pa.	48	32	6	2	Dallas, Tex.	146	69	3	8
Rochester, N. Y.	108	74	2	4	El Paso, Tex.	42	19	2	7
Schenectady, N. Y.	28	22	1	-	Fort Worth, Tex.	70	41	3	2
Scranton, Pa.	46	32	3	2	Houston, Tex.	196	88	2	5
Syracuse, N. Y.	56	35	2	2	Little Rock, Ark.	57	28	7	4
Trenton, N. J.	46	28	3	-	New Orleans, La.	159	79	1	3
Utica, N. Y.	35	25	4	-	Oklahoma City, Okla.	75	40	1	4
Yonkers, N. Y.	37	18	5	4	San Antonio, Tex.	108	55	1	7
EAST NORTH CENTRAL:	2,600	1,428	97	139	Shreveport, La.	39	20	6	3
Akron, Ohio	71	38	-	2	Tulsa, Okla.	62	37	4	4
Canton, Ohio	37	23	7	1	MOUNTAIN:	426	248	15	25
Chicago, Ill.	766	383	28	42	Albuquerque, N. Mex.	46	24	5	2
Cincinnati, Ohio	127	86	3	4	Colorado Springs, Colo.	21	8	1	2
Cleveland, Ohio	209	107	3	11	Denver, Colo.	123	76	7	5
Columbus, Ohio	143	71	3	8	Ogden, Utah	15	11	-	-
Dayton, Ohio	95	55	4	7	Phoenix, Ariz.	110	63	-	10
Detroit, Mich.	348	188	6	18	Pueblo, Colo.	21	17	-	1
Evansville, Ind.	31	25	2	-	Salt Lake City, Utah	37	22	1	1
Flint, Mich.	58	25	5	5	Tucson, Ariz.	53	27	1	4
Fort Wayne, Ind.	45	26	2	7	PACIFIC:	1,657	1,009	45	75
Cary, Ind.	41	18	4	3	Berkeley, Calif.	26	17	1	-
Crand Rapids, Mich.	41	22	2	1	Fresno, Calif.	47	29	3	4
Indianapolis, Ind.	153	94	3	9	Clendale, Calif.	29	23	1	1
Madison, Wis.	39	21	6	6	Honolulu, Hawaii	57	32	1	5
Milwaukee, Wis.	126	77	1	3	Long Beach, Calif.	85	54	3	-
Peoria, Ill.	29	15	1	1	Los Angeles, Calif.	497	297	11	19
Rockford, Ill.	41	24	5	2	Oakland, Calif.	86	44	4	4
South Bend, Ind.	45	34	8	1	Pasadena, Calif.	34	25	-	-
Toledo, Ohio	100	60	4	6	Portland, Oreg.	139	88	4	12
Youngstown, Ohio	55	36	-	2	Sacramento, Calif.	78	46	2	2
WEST NORTH CENTRAL:	825	497	33	33	San Diego, Calif.	93	55	3	7
Des Moines, Iowa	65	44	5	-	San Francisco, Calif.	208	121	6	11
Duluth, Minn.	14	8	3	-	San Jose, Calif.	38	19	-	3
Kansas City, Kans.	40	19	1	2	Seattle, Wash.	146	92	4	6
Kansas City, Mo.	130	70	1	9	Spokane, Wash.	54	38	1	-
Lincoln, Nebr.	35	28	4	-	Tacoma, Wash.	40	29	1	1
Minneapolis, Minn.	111	68	4	6	Total	12,375	7,012	438	577
Omaha, Nebr.	78	41	2	3					
St. Louis, Mo.	229	138	4	10					
St. Paul, Minn.	70	50	2	1					
Wichita, Kans.	53	31	7	2					

**Cumulative Totals**  
including reported corrections for previous weeks

All Causes, All Ages -----	545,758
All Causes, Age 65 and over-----	313,762
Pneumonia and Influenza, All Ages-----	21,685
All Causes, Under 1 Year of Age-----	25,840

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UNIVERSITY OF FLORIDA

## DIPHTHERIA - (Continued from front page)

Table 1  
Diphtheria Cases by Month, Austin, Texas  
October 1967-October 1968

Month	Year	Cases
October	1967	4
November		5
December		2
January	1968	0
February		4
March		4
April		0
May		4
June		6
July		0
August		9
September		7
October		17
Total		62

percent of throat cultures positive for *Corynebacterium diphtheriae* from cases reported through September 1968 were also positive for beta hemolytic streptococci.

An intensive search for contacts and carriers was conducted and a mass immunization campaign was instituted. The immunization campaign has been directed primarily at the lower socioeconomic group, a high risk group, as indicated by the geographic distribution of cases and by an immunization status survey<sup>1</sup> conducted in April 1968 (Table 2). Since June 1968, 38,000 persons have been inoculated by the health department and 32,000 of these in October. In addition, private physicians have also given inoculations. Daily clinics at the health department will be continued and mass immunization and follow-up clinics will be held on November 3 and December 1, 1968, and on January 5, 1969.

Table 2  
Diphtheria-Tetanus Immunization Status\*  
by Socioeconomic Group and Age Group  
Austin, Texas - April 1968\*\*

SOCIOECONOMIC GROUP	AGE GROUP (YEARS)				
	Percent with 3 or more DPT	Percent with Td booster or series in past 7 years			
		1-6	7-14	15-39	≥ 40
Upper	87	90	65	30	47
Middle	80	91	48	26	56
Lower	54	68	34	15	47
Total City	71	82	51	25	36

\*Age 1-6 includes pertussis immunization status

\*\*Preliminary data

(Reported by J. E. Peary, M.D., M.P.H., Commissioner of Health, M. S. Dickerson, M.D., M.P.H., Director, Communicable Disease Division, and J. V. Irons, D.Sc., Chief, Laboratories, Texas State Department of Health; Ben M. Primer, M.D., M.P.H., Director, Austin-Travis County Health Department; and three EIS Officers.)

Reference:

<sup>1</sup>Preliminary Report Immunization Index Survey, conducted by Austin-Travis County Health Department in cooperation with Travis County Medical Society and Texas State Department of Health, April 5, 1968.

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 17,000, IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

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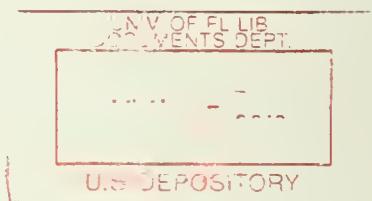
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NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

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